

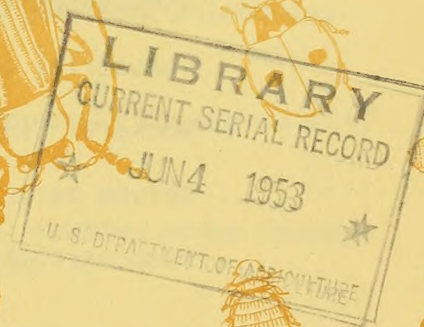
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Cooperative
**ECONOMIC INSECT
REPORT**



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BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

DIVISION OF INSECT DETECTION AND IDENTIFICATION

SECTION OF ECONOMIC INSECT DETECTION AND REPORTING

The Cooperative Economic Insect Report is issued weekly as a service to American Agriculture. Its contents are compiled from information supplied by cooperating State, Federal, and industrial entomologists and other agricultural workers. In releasing this material the Bureau serves as a clearing house and does not assume responsibility for accuracy of the material.

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Section of Economic Insect Detection and Reporting
Bureau of Entomology and Plant Quarantine
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COOPERATIVE ECONOMIC INSECT REPORT

Highlights of Insect Conditions

ARMYWORM outbreak serious and widespread in Tennessee. Infestations general in southern Missouri, scattered in southern and central Illinois. Also reported from other states. (page 390).

GREENBUG reported for first time in Connecticut. (page 390).

PEA APHID continues to cause damage in some areas. Wisconsin reports heaviest infestation in alfalfa in years. (page 388).

POTATO LEAFHOPPER appearing on alfalfa in Maryland, Delaware and South Dakota (pages 389, 403), on potatoes in Virginia and Delaware. (page 395).

COLORADO POTATO BEETLE populations heavy on Long Island, New York. Infestations also in Delaware, Georgia, and Oklahoma. (pages 395, 403).

BEET LEAFHOPPER severe on tomatoes and beets in Zavala County, Texas. (page 396).

LOOPERS on tobacco in South Carolina unusual; causing some damage in Georgia-Florida shade-grown area. (page 397).

Forest and Shade Tree Insect Situation in Wisconsin. (page 398).

Notes received too late for inclusion in the body of this issue are shown on page 403.

Reports in this issue are for the week ending May 22 unless otherwise designated.

WEATHER OF THE WEEK ENDING May 26, 1953

In most of the northern one-third of the Country frequent light to moderate to occasionally heavy showers generally totaled over an inch for the week, except less than 1/2 inch in the New York-New England area. Light to moderate showers also fell over most of the Southeast at the beginning of the period, but only very light amounts were received during the week in the lower Mississippi Valley and central Great Plains, and little or none in the lower Great Plains and Southwest. Some snowfall occurred in western Wyoming early in the week. Severe thunderstorms occurred in the upper Mississippi Valley on the 20th and 24th and 25th. Minor wind and hail damage occurred in Indiana and Iowa, and on the 21st a tornado killed a number of persons and caused considerable damage at Fort Huron, Mich. Hail damaged some fruit and row crops in southwestern Idaho on the 22d, and caused damage in scattered sections of North Carolina at the beginning of the week. The rains in northern areas maintained adequate soil moisture in the northern Great Plains, improved soil moisture and greatly benefitted grains and ranges in the Northwest, but delayed field activities and maintained excessive soil moisture in Pennsylvania. The light rainfall with much sunshine in New York and New England was favorable for soil drying and field activities. Due mostly to heavy rains of previous weeks farm work is still more than a week behind schedule in Indiana, Kentucky, Tennessee, and Arkansas. In Louisiana floods have receded from the central portion of the State, but have spread over the southwestern portion. Estimates of flood losses in this State have now been placed at 100,000,000 dollars.

In the lower Great Plains and Southwest, dry, hot, windy weather further depleted soil moisture. Subsoil moisture is seriously short in western Oklahoma, and grain prospects in the Texas Panhandle are reported to be almost hopeless. In the Southwest ranges are dry, and stock water is getting low in many sections.

Below-normal temperatures prevailed in northern districts westward from the Great Lakes and in most of the far West, with frost and freezing occurring in some extreme north-central areas and over large areas of the far West. The cool weather retarded crop growth, and frost or freezing caused light damage in Idaho, North Dakota, Wisconsin, and Michigan. The entire week was unseasonably warm in southern areas east of the Rocky Mountains, with steadily rising temperatures reaching mid-summer levels about the middle of the period. Record maximum temperatures for so early in the season occurred at several stations in Texas and also in the Southeast. (Summary Supplied by U. S. Weather Bureau).

CEREAL AND FORAGE INSECTS

EUROPEAN CORN BORER (Pyrausta nubilalis) - DELAWARE - A few egg masses on corn near Milton. Also on untreated potatoes at Dover. (Late News). ILLINOIS - Pupation 75 percent complete in southern area, none in Urbana or northern area. Corn planting in central and northern areas almost complete with large acreages up. (Decker). SOUTH DAKOTA - No pupation to May 20. Corn planting delayed in most sections because of weather. (Lofgren).

GRASSHOPPERS (Acrididae) - SOUTH DAKOTA - Hatching delayed by cool weather. Mexicanus bivittatus ready to hatch. (Lofgren). UTAH - Weather generally retarding hatch in Salt Lake and Iron Counties.

MORMON CRICKET (Anabrus simplex) - MONTANA - Hatching in Powell, Big Horn, and Carbon Counties. (Corkins May 11). UTAH - Very little hatching recently in Tooele, Juab and Uintah County because of weather. (Knowlton).

CUTWORMS (Phalaenidae) - VIRGINIA - Causing damage to sweet corn on Eastern Shore. (Brubaker, Greenwood, Hofmaster). MISSOURI - Light infestation of mixed species. Scattered damage to corn, cotton and beans. (Kyd). KANSAS - Some local damage to corn. (Smith).

WIREWORMS (Elateridae) - ILLINOIS - Reports of severe damage to early-planted corn. (Decker).

A BILLBUG (Calendra sp.) - GEORGIA - Heavy infestation in young corn in 4-acre field in Calhoun County, May 14. (Jordan).

SEED-CORN MAGGOT (Hylemya cilicrura) - PENNSYLVANIA - Generally very severe in sweet and field corn. (Pepper). TENNESSEE - Attacking early-planted corn and cotton in west Tennessee. (Mullett).

SOUTHERN CORN ROOTWORM (Diabrotica undecimpunctata howardi) - ALABAMA - Extensive damage to corn in Baldwin and Mobile Counties. (Arant).

LESSER CORNSTALK BORER (Elasmopalpus lignosellus) - MISSISSIPPI - Larvae destroyed stand of corn on 9 acres in Jackson County. (Bond).

FALL ARMYWORM (Laphygma frugiperda) - MISSISSIPPI - Severe damage to 60 acres of corn in Jackson County. (Price).

CORN FLEA BEETLE (Chaetocnema pulicaria) - ILLINOIS - Severely damaging some fields of early corn throughout south-central, central and north-central areas. (Decker). MISSOURI - Up to 6 adults per corn plant in southwest quarter of State. Control measures justified in some cases. (Kyd).

ALFALFA WEEVIL (Hypera postica) - UTAH - Injury in occasional field at Erda and Lakepoint where early controls omitted. (Knowlton). IDAHO - Survey to determine if this weevil had become established in Nez Perce County showed negative results in 17 alfalfa fields examined; however, adults and larvae found in city limits of Lewiston on volunteer alfalfa near buildings of a hay dealer. (Portman).

PEA APHID (Macrosiphum pisi) - DELAWARE - Generally reduced to non-injurious levels by natural control. (Late News). WISCONSIN - Heaviest infestation in alfalfa in many years. Serious damage in many fields. Unusually large percentage of diseased and parasitized aphids but control measures necessary in many fields. Aphids already moving into early-planted peas. (Chambers). ILLINOIS - Have migrated into new seedlings of legumes. (Decker). MISSOURI - Under 8 per sweep. Damage negligible. (Kyd). KANSAS - Control measures should be applied in some areas. (Smith). TEXAS - Light infestation on vetch in five county area of northeast Texas. SOUTH DAKOTA - Very abundant in southern area. (Lofgren). UTAH - Some damage still occurring to alfalfa in Tooele and Salt Lake Counties. Some fields 40 to 90 percent without growth where control not applied; however, situation greatly improved over that of a few weeks ago. (Knowlton). IDAHO - Seventy-two aphids per 100 sweeps collected in alfalfa west of Moscow May 6. (Schopp). Continuing to build up in alfalfa throughout southwestern area. Winged aphids commencing to show up in commercial and garden pea plantings. (Walz). WASHINGTON - Apparently development of populations in Wawawai and Snake River Canyon areas checked by unfavorable weather conditions. (Schopp).

ARMY CUTWORM (Chorizagrotis auxiliaris) - COLORADO - Reported damaging alfalfa in San Luis Valley. Seven to 8 worms per square foot. Large numbers of adults in Larimer County. (Daniels).

LYGUS BUGS (Lygus spp.) - SOUTH DAKOTA - Very abundant in alfalfa in southern area. (Lofgren). UTAH - Populations continue above normal for time of year in alfalfa and wheat in Salt Lake and Tooele Counties. (Knowlton).

SIX-SPOTTED LEAFHOPPER (Macrosteles fascifrons) - OREGON - Nymphs and adults very numerous on Ladino clover; up to 5-10 per sweep in some fields. Populations very small in fall-seed grain, grasses, red clover and alfalfa in Jefferson County. (Amen, May 14).

CLOVER WEEVILS - SOUTH CAROLINA - Have been generally destructive to crimson clover in Greenwood, Saluda and Anderson Counties. (Johnson).

SPITTLEBUGS - CONNECTICUT - Numerous in localized areas on grass, legumes and weeds at Windsor and Orange. (Johnson and Kring). DELAWARE - Adults very numerous in alfalfa and clover. (Late News).

POTATO LEAFHOPPER (Empoasca fabae) - DELAWARE - Appearing in alfalfa at several points. (Late News). SOUTH DAKOTA - Very few in alfalfa in extreme southeast part of State. (Lofgren).

SWEETCLOVER WEEVIL (Sitona cylindricollis) - KANSAS - Has not been a problem anywhere in State this spring. Injury less than in 1952. (Smith). SOUTH DAKOTA - Extremely abundant, stripping second-year clover. (Lofgren). MONTANA - Damage in Flathead County. (Corkins, May 11).

SPIDER MITES - IDAHO - One field of red clover in southwestern area very heavily infested. (Walz).

MEADOW PLANT BUG (Miris dolabratus) - MISSOURI - Adults and nymphs taken on grasses bordering small grains and legumes and from pastures. Damage to fescue in Wright County. (Kyd).

LEAFHOPPERS (Cicadellidae) - MISSOURI - Infestation in southern areas much lighter than 2 weeks ago. (Kyd). TEXAS - Medium to severe widespread infestation on vetch, small corn, cotton and small grain in five county area of northeast Texas. (Garner). SOUTH DAKOTA - Leafhoppers (Mainly Aceratogallia sanguinolenta and Macrosteles fascifrons) abundant on alfalfa in southern area. (Lofgren). OKLAHOMA - Severe in ryegrass lawns in Oklahoma City. (Bower).

ARMY WORM (Pseudaletia unipuncta) - DELAWARE - Second to fourth instars light to moderate in Kent and Sussex Counties. Heavy in rye and invading corn at Slaughter Beach. (Late News). OHIO - Moths still abundant at lights at Athens and Wooster. (Neiswander and Stehr). TENNESSEE - Contrary to earlier expectations, most serious and widespread outbreak in the past several years. Small grains, forage and young corn under attack. Practically all middle Tennessee counties infested plus several eastern and western counties. Upwards of 3000 acres requiring treatment in some middle Tennessee counties. Rains have hampered control operations. The outbreak is about two weeks later than usual. (Mullett). ILLINOIS - Scattered infestations still being reported in heavy stands of small grains and grasses in southern and central areas. (Decker). MISSOURI - General over southern half of State. Second and third instars in first tier of counties north of Missouri River. Estimated 30,000 acres sprayed in southeast counties where larvae are in third and fourth instars. Prompt spraying has so far prevented extensive damage. (Kyd). WISCONSIN - Adults in several sections of southern Wisconsin. Eggs apparently ready to hatch. (Chambers).

EUROPEAN WHEAT STEM SAWFLY (Cephus pygmaeus) - DELAWARE - Adults abundant in grains in Smyrna area. (Late News).

GREENBUG (Toxoptera graminum) - CONNECTICUT - Collected in flight at Short Beach. This is the first reported record of this insect in Connecticut. (Kring). MISSOURI - Light infestation over southern half of State. Damage negligible. (Kyd).

ENGLISH GRAIN APHD (Macrosiphum granarium) - MISSOURI - Light over southern half of State. (Kyd). KANSAS - Fairly abundant in wheat over most of State. Damage non-economic. (Smith).

WIREWORM (Elateridae) and FALSE WIREWORM (Tenebrionidae) - MONTANA - Damaging winter wheat in Galatine, Broadwater, Chouteau, Liberty and Tooele Counties. (Corkins May 11).

BROWN WHEAT MITE (Petrobia latens) - KANSAS - Infestations declined somewhat in southwestern counties. Population mainly adult. (Smith). COLORADO - Causing damage in wheat areas. Control measures applied. (Daniels).

PALE WESTERN CUTWORM (Agrotis orthogonia) - UTAH - Some damage to dryland wheat in areas of San Juan and Utah Counties. (Knowlton).

CHINCH BUG (Blissus leucopterus) - ILLINOIS - Overwintering adults reported extremely abundant in grain fields throughout infested areas of central southwestern Illinois. (Decker).

YELLOW SUGARCANE APHID (Sipha flava) - CONNECTICUT - Taken on grass and in flight at Short Beach. (Kring).

EASTERN FIELD WIREWORM (Limonius agonus) - CONNECTICUT - Adults slightly more numerous than in 1952. (Kring).

A PLANT BUG (Labops hesperus) - MONTANA - High populations in several crested wheat grass fields in Cascade County. (Corkins May 11).

STORED GRAIN INSECTS - KANSAS - Cadelle (Tenebroides mauritanicus) adults most abundant insect found in bins. No Indian-meal moth (Plodia interpunctella) adults observed in bins infested last fall. Saw-toothed grain beetle (Oryzaephilus surinamensis), flat grain beetle (Laemophloeus pusillus), and an occasional granary weevil (Sitophilus granarius) found around feed rooms. (Smith).

FRUIT INSECTS.

PLUM CURCULIO (Conotrachelus nenuphar) - MASSACHUSETTS - Activity heavy in most sections. (Crop Pest Contr. Mess.). NEW JERSEY - Egg laying should be complete by June 1; a few wormy peach drops from Burlington County south. (Farley). PENNSYLVANIA - Generally abundant. Heavier than last year in many areas. (Pepper). OHIO - Adults active and abundant on peaches and plums in northern area. First eggs May 16. (Rings). MICHIGAN - Adults appeared at Lansing over weekend of May 18. (Hutson). MISSOURI - Activity nearly over in southern area. Light in central. (Wkly. Rept. Fr. Grs.).

APPLE CURCULIO (Tachypterellus quadrigibbus) - PENNSYLVANIA - Heavy infestation in Lackawanna County. (Gesell).

CURCULIOS began emerging in southeastern MINNESOTA, May 19. Small numbers of both plum and apple curculios jarred from apple trees. (Orch. Pest Warning Ser.).

CODLING MOTH (*Carpocapsa pomonella*) - DELAWARE - Emergence near 50 percent. (Late News). NEW JERSEY - Possibly 50 percent emergence from Burlington County south. (Farley). OHIO - Large numbers emerged at Wooster May 21. At lights in southern area May 20 and traps May 18. (Cutright). Weather has delayed hatch in western Kentucky, and southern areas of ILLINOIS and INDIANA. (Spray Ser. Rept.). MASSACHUSETTS - Adults began emerging in cages at Amherst May 21. (Crop Pest Contr. Mess.). MISSOURI - Emergence nearly over in southwest; egg laying underway. A very few adults in southeast area. (Wkly. Rept. Fr. Grs.) OREGON - Adults emerging in Marion County. (Larson).

RED-BANDED LEAF ROLLER (*Argyrotaenia velutinana*) - PENNSYLVANIA - Hatching in Erie County (Adams). INDIANA - First-brood larvae continue active in Vincennes area. (Hamilton). MISSOURI - Some activity in southeast, southwest and central areas. Second or third instar larvae in southwest. (Wkly. Rept. Fr. Grs.).

ORIENTAL FRUIT MOTTE (*Grapholitha molesta*) - NEW JERSEY - Practically all first-brood moths emerged from Burlington County south; terminal peach twig injury and young larvae in a few small peaches in that area. (Farley).

CATFACING INSECTS - OHIO - Tarnished plant bug (*Lygus lineolaris*) adults unusually abundant on peaches in Wayne County May 15, 16. Several species of brown stink bugs (*Euschistus* spp.) and green stink bug (*Acrosternum hilare*) jarred from peaches in moderate numbers at Wooster, May 15, 16. (Rings). INDIANA - Stink bug populations light but injury readily found in Vincennes area. (Hamilton). ILLINOIS - Preliminary records in 14 southern peach orchards show 0 to 7 percent catfacing damage. (Chandler).

SPIDER MITES - NEW JERSEY - Major change in European red mite (*Metatetranychus ulmi*) situation in past week has been increase in eggs on leaves. (Farley). Mite populations unusually low for time of year in western KENTUCKY, southern areas of ILLINOIS and INDIANA. (Spray Serv. Rept.). MICHIGAN - European red mite becoming noticeable on young plum leaves in some orchards around Lansing. (Hutson). MINNESOTA - Noted in several orchards. (Orch. Pest Warn. Serv.).

APHIDS - WISCONSIN - Rosy apple aphid (Anuraphis roseus) and apple grain aphid (Rhopalosiphum prunifoliae) are unusually abundant in unsprayed farm orchards in southern areas. (Chambers). Many orchards in western KENTUCKY, and southern areas of ILLINOIS and INDIANA have alarming infestations of rosy apple aphids even where proper dormant sprays applied. (Spray Serv. Rept.). MINNESOTA - Noted in several orchards. (Orch. Pest Warn. Serv.).

GREEN PEACH APHID (Myzus persicae) - UTAH - Many peach trees badly curled where spraying neglected because of frost damage to crop. (Knowlton).

CHERRY FRUIT FLY (Rhagoletis cingulata) - WASHINGTON - First adult of the season taken May 20 in Grandview-Sunnyside area. (Yothers).

BLACK CHERRY APHID (Myzus cerasi) - WASHINGTON - Colonies becoming large and numerous on bing cherry near Prosser, May 12. Winged forms found for first time on bing cherry trees near Sawyer and Prosser, May 18. (Johansen).

THISTLE APHID (Anuraphis cardui) - WASHINGTON - All stages heavily infesting plums near Prosser, May 12. (Johansen).

DESTRUCTIVE PRUNEWORM (Mineola scitulella) - MICHIGAN - Larvae moving from hibernaculae to cherry buds at Kewadin, May 15. (Hutson).

WHITE APPLE LEAFHOPPER (Typhlocyba pomaria) - PENNSYLVANIA - Abundant in some sprayed orchards in Erie County. (Adams).

A PEACH LEAF MINER - OHIO - First-generation larval mines first observed on peaches in Erie County, May 21. Moderate number of adults. (Rings).

SPRING CANKERWORM (Paleacrita vernata) - WISCONSIN - Damaging unsprayed farm orchards in east central areas. (Chambers). PENNSYLVANIA - Abundant in many Erie County orchards. (Adams).

PERIODICAL CICADA (Magicicada septendecim) - DELAWARE - First adults at Newark May 15. (Late News). PENNSYLVANIA - Emerged in southeast area May 14-15, central area May 22. (Menusan and Udine).

MEALY PLUM APHID (Hyalopterus arundinis) - OHIO - Populations increasing in Wayne County. (Rings).

EUROPEAN FRUIT LECANIUM (Lecanium corni) - OHIO - Severe infestation on peaches and plums in Columbiana County. Most scales mature. Male emergence practically complete. Oviposition begun. (Rings). COLORADO - Causing damage to apple and pear in Mesa County. (Daniels).

CITRUS PESTS - TEXAS - Although several pests are prevalent in many Valley groves, none appear to be causing any particular damage except possibly citrus rust mite (Phyllocoptura olivera). (Stephenson).

CITRUS BLACKFLY (Aleurocanthus woglumi) - TEXAS - First systematic survey in city of Brownsville completed without finding any citrus blackfly. (Stephenson).

MEXICAN FRUIT FLY (Anastrepha ludens) - MEXICO - Two female specimens taken in traps May 1 at Hermosillo, Sonora. So far as known, these are the first Mexican fruit flies found this far north in the state of Sonora. Hermosillo is 110 miles south of Nogales, Arizona. (Stephenson).

TRUCK CROP INSECTS

MEXICAN BEAN BEETLE (Epilachna varivestis) - SOUTH CAROLINA - Infestations continue generally light in Charleston area, but heavy damage in one field. (Reid). GEORGIA - Heavy infestation of larvae and adults on snap beans in Tift County. (Morgan). PENNSYLVANIA - Adults fairly abundant. (Pepper). TENNESSEE - Continued to increase in east Tennessee. (Mullett). ALABAMA - Damaging pole beans in Baldwin and Mobile Counties. (Arant). VIRGINIA - Adults increasing on Eastern Shore and Norfolk area. Oviposition underway. (Brubaker, Greenwood, Hofmaster). SOUTH CAROLINA - Damaging snap beans in Florence, Lake City, Georgetown and Loris areas. (Creighton). OHIO - Infesting early-planted beans in southern area. Damage light. (Stehr).

BEAN LEAF BEETLE (Cerotoma trifurcata) - DELAWARE - Injurious in Sussex County. (Late News). VIRGINIA - Up to ten percent defoliation in some bean plantings in eastern areas. (Brubaker, Greenwood, Hofmaster). SOUTH CAROLINA - Attacking beans in Georgetown and Lake City areas. (Creighton). OHIO - Light damage to early-planted beans at Athens and Marietta. (Stehr and Neiswander).

BEAN APHID (Aphis fabae) - WASHINGTON - Extensive colonies on snowball bushes in Sumner area. Winged forms developing in considerable numbers and new colonies found on various weeds. (Doucette).

PEA APHID (Macrosiphum pisi) - WASHINGTON - Populations on peas remain low in Gardena area. Winged forms moving from early peas to later varieties. A few fields in heaviest infested areas had populations of 4 to 5 aphids per sweep, May 15, but many fields had less. (Cook).

PEA LEAF MINER (Liriomyza langei) - CALIFORNIA - Has damaged about 200 acres of very young pepper plants in Orange County. (Campbell).

WIREWORMS (Chiefly Conoderus spp.) - SOUTH CAROLINA - Considerable injury to early potatoes in Charleston area. Early estimates show 10 to 50 percent tuber infestation in some fields. (Reid).

POTATO LEAFHOPPER (Empoasca fabae) - DELAWARE - Infesting potatoes. VIRGINIA - Up to 3 or 4 adults per foot of row in bean plantings on Eastern Shore. Light on potatoes in Norfolk area. (Brubaker, Greenwood, Hofmaster).

SEED-CORN MAGGOT (Hylemya cilicrura) - WASHINGTON - Attacking potato seed pieces at Grandview and causing loss to fieldbeans at Pasco. (Klostermeyer).

COLORADO POTATO BEETLE (Leptinotarsa decemlineata) - DELAWARE - Infesting untreated tomato plantings in Kent and Sussex Counties. (Late News). GEORGIA - Damaging tomatoes in Ben Hill County. (Geiger). OKLAHOMA - Large numbers on potatoes and tomatoes in southern area. (Bower).

PICKLEWORM (Diaphania nitidalis) - SOUTH CAROLINA - First specimen of season in Charleston area found in cucumber fruit May 20. (Reid).

YELLOW WOOLLYBEAR (Diacrisia virginica) - FLORIDA - Damaging watermelons in Monticello area, May 18. Controls applied. (Phillips).

A CUCUMBER BEETLE (Chrysomelidae) - TEXAS - Severe widespread infestation on vegetables in Wood County. (Spacek).

STRIPED CUCUMBER BEETLE (Acalymma vittata) - DELAWARE - Damaged squash and cucumber in Sussex County. (Late News).

ALABAMA - Attacking watermelons and cantaloups in Baldwin and Mobile Counties. (Arant). OKLAHOMA - Severe on young watermelons in southeastern area. (Bower).

CUTWORMS (Phalaenidae) - PENNSYLVANIA - Control necessary on tomatoes and tobacco in southern area. (Pepper and Menusan).

TEXAS - Severe widespread infestation on vegetables in Wood County. (Spacek).

TOMATO FRUITWORM (Heliothis armigera) - SOUTH CAROLINA - Light but increasing populations in Charleston area. (Reid). GEORGIA - Heavy infestation damaging tomatoes in Tift County. (Girardeau). Light on tomatoes in Ben Hill County. (Geiger). TENNESSEE - Attacking tomatoes in east Tennessee. (Mullett).

SPIDER MITES - MASSACHUSETTS - Increasing on strawberries in Falmouth area. (Crop. Pest. Contr. Mess.). NEW JERSEY - Some strawberry fields have extremely heavy infestation. (Farley).

STRAWBERRY LEAF ROLLER (Ancylis comptana fragariae) - IDAHO - Adults found in many old strawberry plantings in southwestern area. A few second and third instar larvae. (Walz).

SPINACH FLEA BEETLE (Disonycha xanthomelas) - MICHIGAN - Numerous at Grant. (Hutson).

STRIPED FLEA BEETLE (Phyllotreta striolata) - MICHIGAN - Numerous on radishes at Grant. (Hutson).

BEET LEAFHOPPER (Circulifer tenellus) - TEXAS - Severe widespread infestation attacking tomatoes and canning beets in Zavala County. One canning company losing much of its beets and experimental tomato plots almost completely destroyed. (Richardson).

SUGAR-BEET WIREWORM (Limonijs californicus) - OREGON - Adults collected within 7-10 miles of irrigated crop lands near Madras in Jefferson County, May 5. (Morrison).

ONION MAGGOT (Hylemya antiqua) - OREGON - Indications of heavy infestation at Lake Labish, Marion County. Injury to seedlings becoming apparent. (Crowell).

ONION THRIPS (Thrips tabaci) - VIRGINIA - Light to moderate injury to onions on Eastern Shore. Also to some plantings in Norfolk area. (Brubaker, Greenwood, Hofmaster).

CABBAGE CATERPILLARS - VIRGINIA - Cabbage looper (Trichoplusia ni) and imported cabbageworm (Pieris rapae) damaging untreated cabbage on Eastern Shore. Imported cabbageworm adults unusually abundant. (Brubaker, Greenwood, Hofmaster). KANSAS - Imported cabbageworm adults abundant. (Smith).

CABBAGE APHID (Brevicoryne brassicae) - CALIFORNIA - Light to medium in cabbage and cauliflower fields in Santa Barbara County. (Campbell).

CABBAGE MAGGOT (Hylemya brassicae) - CONNECTICUT - Severe loss expected in 1 1/2 acres of cauliflower at Hamden. (Johnson). GEORGIA - Moderate infestation damaging cabbage plant beds in Rabun County, May 16. (Sheldrake).

LOOPERS ON TOBACCO - SOUTH CAROLINA - A few larvae feeding on tobacco on two farms near Florence. This is unusual in this area. (Allen). FLORIDA - Cabbage looper (Trichoplusia ni), normally a very minor pest on tobacco in the Florida-Georgia shade-grown area, is causing many complaints. Infestation is generally light and spotted but many fields affected. In a very few instances estimated loss caused by larval feeding may exceed 5 percent. No controls so far attempted appear to be entirely satisfactory. (Guthrie and May).

TOBACCO BUDWORM (Heliothis virescens) - SOUTH CAROLINA - Has been especially abundant; as many as three applications of insecticides in some instances. (Allen and Creighton).

TOBACCO HORNWORM (Protoparce sexta) - SOUTH CAROLINA - Occurring on tobacco, generally. (Allen and Creighton).

VEGETABLE WEEVIL (Listroderes costirostris obliquus) - VIRGINIA - According to available files, reported in State for first time as feeding on tobacco plant beds. Larval specimens collected in Lunenburg County in early May. (Rowell).

BARBERRY APHID (Liosomaphis berberidis) and SPIREA APHID (Aphis spiraeicola) - Both unusually abundant on barberry and spirea in Wisconsin. (Chambers).

Green peach aphid situation on tobacco in Dominican Republic: Myzus persicae appeared in tobacco seed beds in early December, 1952, in epidemic proportions, with rapid spread to fields. Principal area affected radiated around Santiago de los Caballeros approximately 20 kilometers. Heaviest infestations at Villa Gonzalez, 14 kilometers west of Santiago, where first outbreak was observed in this country in January 1951. Light infestations observed in January and February 1953 in tobacco fields around Monsenor Nouel, La Vega and Moca, and in April east of Monte Cristi on north coast. Insecticide control effectively used in this country for first time, but in limited experimental amounts and restricted areas on seed beds and in fields. (Bradley and Beinhart - Point IV).

NARICISSUS BULB FLY (Lampetia equestris) - WASHINGTON - Adult emergence reaching peak at Sumner. (Doucette).

A SCALE INSECT (Asterolecanium arabidis) - OREGON - Infesting jasmine in Multnomah County. (Hemmerling).

FOREST INSECTS

Forest and Shade Tree Insect Situation in Wisconsin: Eastern spruce gall aphid (Chermes abietis) more abundant than usual in southern area nurseries and park plantings. A woolly aphid (Phyllaphis fagi) is very abundant on purple beech innursery plantings in Milwaukee and Walworth Counties. European elm scale (Gossyparia spuria) is becoming more prevalent in southern street-tree plantings. Pine tortoise scale (Toumeyella numismaticum) is very heavy in local areas in Eau Claire and Langlade Counties. A bark beetle (Pityogenes hopkinsi) observed laying eggs May 9. Reported as very severe in winter-killed white pine and other species of pine in many north central counties. A pine sawfly (Neodiprion nanulus) hatching in several central counties, May 16. Apparently more abundant than last year when considerable widespread damage occurred. White-pine weevil (Pissodes strobi) emergence began in central Wisconsin April 25. Very abundant in Douglas, Oconto, Portage, Oneida, Manitowoc, La Crosse, Waushara and Wood Countis. Pine engraver (Ips pini) and red turpentine beetle (Dendroctonus valens) reported in several counties. Laying eggs May 9. Larch casebearer (Coleophora laricella) is causing browning of larch everywhere grown in entire State. D. M. Benjamin reports feeding on tamarack stands on Chequamegon National Forest. European pine shoot moth (Ryacionia buoliana) reported very numerous in Milwaukee County by J. A. MacAloney. (Chambers).

FLETCHER SCALE (Lecanium fletcheri) and GRAPE MEALYBUG (Pseudococcus maritimus) - Usually abundant in Wisconsin nurseries. (Chambers).

CYNIPID GALLS - PENNSYLVANIA - Leaf galls very severe on pin oaks in Butler County. (Adams).

SPRUCE SPIDER MITE (Paratetranychus ununguis) - PENNSYLVANIA - General in southeast area. (Menusan).

MAPLE BLADDER-GALL MITE (Vasates quadripedes) - PENNSYLVANIA - More abundant than usual. (Pepper).

BROWN-HEADED ASH SAWFLY (Tomostethus multicinctus) - PENNSYLVANIA - Defoliating ash in Cumberland County. (Pepper).

NORWAY-MAPLE AFBID (Periphyllus lyropictus) - PENNSYLVANIA - Abundant in southeast area. (Menusan).

AZALEA LACE BUG (Stephantiis pyrioides) - PENNSYLVANIA - Very abundant in southeast area. (Menusan). MARYLAND - Abundant at College Park. (Bissell).

SOUTHERN PINE BEETLE (Dendroctonus frontalis) - ALABAMA - Killing pines in residential sections of Mobile. (Rohwer).

A PINE SAWFLY (Neodiprion sertifer) - OHIO - Medium to severe infestations in pine plantations. Largest outbreak in Mohican State Forest. Infestation apparently 2 or more years old and has spread to nearly all red and white pine plantings. (Whitten).

EASTERN TENT CATERPILLAR (Malacosoma americanum) - MICHIGAN - Abundant over lower half of lower peninsula. (Hutson).

A COTTONWOOD BUD GALL MITE (Eriophyes sp.) - MONTANA - Infestations reported in Musselshell and Yellowstone Counties, April 30. Further infestation reported in Choteau County, May 11. (Corkins).

COTTON INSECTS

BOLL WEEVIL (*Anthonomus grandis*) - **SOUTH CAROLINA** - Survival in hibernation cages at Florence to May 22 -- 5.70, percent to same date 1952 -- 5.20 percent. Weevils found in rather large numbers in most early-planted fields in Florence area. (Fife and Jernigan). Forty-five percent of fields examined in 17 counties found infested. (Cotton Letter). **GEORGIA** - Fields in south Georgia generally infested. Weevils also found in several northern counties. (Jordan). Average of 1000 per acre in young cotton in Tifton area. (Morgan). **TENNESSEE** - Examination of 24 fields in 9 west Tennessee counties showed 5 fields infested at rate of 48 weevils per acre. Weevils per acre all fields -- 10. Weevils emerging in McNairy County. All fields examined infested. (Morris). **MISSISSIPPI** - Fourteen fields examined in Sunflower and Washington Counties, 3(in Washington County) found infested at average rate of 67 weevils per acre. Weevils per acre all fields -- 14. (Dunnam et al). **LOUISIANA** - Survival in hibernation cages at Tallulah May 1 to 21, inclusive, -- .42 percent. For same period in 1952 -- .42 percent. (Gaines et al). **TEXAS** - Emergence from hibernation cages continues at Waco and College Station. Overwintered weevils entering cotton fields in increasing numbers in south central, central, north central and eastern areas. In counties in which limited inspections could be made, overwintered weevils found at following average rates per acre: Sabine, 750; San Augustine, 450; Nacogdoches, 300; Austin, 255; Travis, 225; Brazos, 188; Hunt, 150; Caldwell, 150; Shelby, 120; Delta, 105; Fayette, 105; and DeWitt, 21.

Infestations increased some in the Lower Valley. Square inspection indicates infestations continue generally light in southwest and Coastal Bend areas. Infestation in various counties ranged from 0 to 5 percent punctured squares with only three of 102 fields having infestations within range of 11 to 25 percent. These fields are in Starr, Live Oak and Nueces Counties. In the south central area 14 untreated fields inspected in Bee, Goliad and Karnes Counties averaged 10 percent punctured squares with seven having infestations within range of 11 to 25 percent. (Parenchia et al).

GRASSHOPPERS (Acrididae) - **TEXAS** - Medium local infestation attacking cotton in Caldwell County. (Brown).

FLEA BEETLES (Chrysomelidae) - **SOUTH CAROLINA** - Damaging seedling cotton in Piedmont area. (Cotton Letter).

COTTON FLEAHOPPER (Psallus seriatus) - TEXAS - Infestations increased in the Lower Valley with greatest increase in Hidalgo County. There was a general increase in infestation from the Valley through the south central area. Infestation in untreated fields in southwest area increased from an average of 8 fleahoppers per 100 terminals last week to 10 this week. Infestation in treated fields was same as last week - 3 per 100 terminals. Fields needing treatment are in Live Oak, Duval, La Salle, Star and Zavala Counties. In the Coastal Bend area infestation averaged 7 per 100 terminals and compares with 6 for last week. Infestations warrant control measures in some fields in Jim Wells, Nueces and Kleberg Counties. Injurious infestations in some fields in Medina, Bee, Kinney, Lee and DeWitt Counties in south central area. Because of wet fields inspections limited in upper coastal area. Fourteen fields inspected in Matagorda, Wharton, Fort Bend and Jackson Counties had average of 9 fleahoppers per 100 terminals. Increases in infestation can be expected as migration occurs from maturing horsemint. (Parenchia et al).

Cotton Pest Situation in Arizona: Principal pests are thrips, beet armyworm (Laphygma exigua) and cutworms. Some insecticides applied for cutworms in Pima County, all areas for thrips. Large acreages treated for beet armyworm in Buckeye section of Maricopa County. Most of first brood pupating. (Stevenson et al).

YELLOW-STRIPED ARMYWORM (Prodenia ornithogalli) - TENNESSEE - Occurring in some fields in west Tennessee and damaging many young leaves. (Morris). MISSISSIPPI - Found in 4 fields in Washington County area. Moths collected in light trap on 4 days. (Dunnam et al). TEXAS - Medium infestation on early cotton in Rockwall and Delta Counties. (Garner).

APHIDS - SOUTH CAROLINA - Some damage in lower Coastal Plain. (Cotton Letter). TENNESSEE - Light infestations in most fields examined in 9 west Tennessee counties. Some damage. (Morris). TEXAS - Infestations increased in some spots in Cameron and Willacy Counties in the Lower Valley. Medium to heavy infestations in occasional fields in Travis, Austin, Lee, Williamson, Brazos, Delta, and Hunt Counties. (Parenchia et al).

SPIDER MITES - SOUTH CAROLINA - Very light infestation in Florence area. (Fife and Jernigan). TEXAS - Light infestations in occasional fields in Starr, Nueces and Wharton Counties. (Parenchia et al).

THRIPS - SOUTH CAROLINA - Very light infestation in Florence area. (Fife and Jernigan). Damaging seedling cotton in Piedmont area. (Cotton Letter). TENNESSEE - Damage in 17 fields in 9 west Tennessee counties; heavy in 2 fields, medium in 7. (Morris). MISSISSIPPI - Recorded in 5 fields in Washington County area - 3 medium, 2 light. (Dunnam et al). TEXAS - Injurious infestations in Travis, Austin, Caldwell and Fayette Counties in south central area. In central area damaging infestations in McLennan, Falls, Limestone, Williamson and Navarro Counties. Injurious infestations also in Rockwall, Brazos and Shelby. Decreasing in upper coastal area. (Parencia et al). ARIZONA - Several species very abundant in cotton in 4-leaf stage. Up to 17 thrips per plant with average of 8-10 per plant in Salt River Valley. (Hopkins).

CUTWORMS (Phalaenidae) - TEXAS - Damage to cotton in occasional fields in Caldwell, Hill, Navarro, Rockwall and San Augustine Counties.

PINK BOLLWORM (Pectinophora gossypiella) - TEXAS - From 16 counties of Coastal Bend area, 733,987 blooms have been inspected and 22,431 worms found or a 3.1 percent infestation. Heaviest infestation being found in San Patricio and adjoining counties. This represents a 1.3 percent increase over last year at same date. (Welker, May 25).

INSECTS AFFECTING MAN AND ANIMALS

TURKEY GNATS (Simuliidae) - SOUTH CAROLINA - Leucocytozoan infestation severe in several turkey flocks in Jasper County. (Nettles).

MOSQUITOES - MICHIGAN - Culex pipiens and Aedes vexans adults appearing in Grand River Valley from Grand Rapids to Lansing. Larval stage general but adults numerous in few scattered places. (Hutson).

MISCELLANEOUS INSECTS

JUNE BEETLES (Phyllophaga spp.) - WISCONSIN - Adults emerging in south central area. Light flights observed. Heavy concentrations of grubs reported in sections of Iron and Marathon Counties. (Chambers).

ADDITIONAL NOTES

ARIZONA - THREE-CORNERED ALFALFA HOPPER (*Spissistilus festina*) abundant in alfalfa in Yuma area. (Tuttle). A LEAFHOPPER (*Empoasca* sp.) building up in some potato fields in Salt River Valley. A THRIPS (prob. *Thrips tabaci*) injuring young squash in a planting near Mesa. (Hopkins). COTTON-CUSHION SCALE infestation has caused severe damage to citrus in Phoenix area. (Brantlinger).

MARYLAND - ALFALFA WEEVIL has caused much damage to alfalfa in northern area of State. Sprays applied for spittlebug did not control the weevil. Spotted feeding on ladino clover has been observed. Slight numbers of POTATO LEAFHOPPER on alfalfa in Howard County. ARMYWORM damaging corn in Dorchester County, barley and young clover in Talbot, Caroline and Howard Counties. (Bissell). First emergence of PERIODICAL CICADA at Hancock May 14. CODLING MOTH emergence heavy at Hancock May 21. Eggs laid May 18. MITES generally light in Hancock area orchards. (Graham).

NEW YORK - First CODLING MOTHS found in Columbia County, May 22. (Dean). ROSY APPLE APHID increasing and injury showing in Rockland County. (Clark). EUROPEAN RED MITE under control in Rockland County (Clark), problem in most untreated orchards in Saratoga County (Corey), fairly abundant in some Wayne County orchards (Small), hatching increasing in Orleans County (West). EUROPEAN APPLE SAWFLY (*Hoplocampa testudinea*) injury found 10 miles southwest of Newburgh (Zaharchuk), damage for first time in two orchards in Millbrook area of Dutchess County. (Sergeant). PLUM CURCULIO injury showing up in Ulster County orchards (Palmer), considerable injury in Rockland County (Clark), damage general in Dutchess County (Sergeant), active in Saratoga County (Corey), feeding injury on cherries in Chautauqua County, first injury May 20 in Monroe County (West). MEXICAN BEAN BEETLE emerging in Suffolk County and feeding on bean seedlings, (Huckett). First adults caught May 16 in Rockland County. (Clark). FLEA BEETLES particularly abundant in Rockland County (Clark), heavier than usual on tomatoes in Saratoga County (Corey), infesting cabbage seed beds in Genesee County (Stone), active on unsprayed tomatoes in Chautauqua County (Jordan). COLORADO POTATO BEETLE depositing eggs on potatoes in Rockland County (Clark), heavy on some tomatoes in Niagara County (Stevenson), appearing in numbers in Nassau and Suffolk Counties (Quinton). EUROPEAN CHAFER (*Amphimallon majalis*) pupa found May 20 in Newark area. In earliest locations population approximately 50 percent prepupae. With normal seasonal weather an early flight can be expected. (Tashiro).

ADDITIONAL NOTES

THE following notes are taken from the original manuscript of the report of the Committee on the Administration of the Government of the District of Columbia, and are intended to supplement the main body of the report. They are arranged in the same order as the main body of the report, and are intended to be read in conjunction with it.

The first note relates to the question of the appointment of the members of the Board of Commissioners. It is stated that the Board of Commissioners is composed of five members, who are appointed by the President of the United States, and who serve for a term of four years. The President may remove any member of the Board at any time, and may fill any vacancy that may occur.

The second note relates to the question of the powers of the Board of Commissioners. It is stated that the Board of Commissioners has the honor and privilege of presenting to the President of the United States, for his approval or disapproval, all appointments, removals, and commissions of officers and employees of the Government of the District of Columbia. It also has the honor and privilege of presenting to the President of the United States, for his approval or disapproval, all appointments, removals, and commissions of officers and employees of the Government of the District of Columbia.

The third note relates to the question of the powers of the Board of Commissioners. It is stated that the Board of Commissioners has the honor and privilege of presenting to the President of the United States, for his approval or disapproval, all appointments, removals, and commissions of officers and employees of the Government of the District of Columbia. It also has the honor and privilege of presenting to the President of the United States, for his approval or disapproval, all appointments, removals, and commissions of officers and employees of the Government of the District of Columbia.

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